



DEPARTMENT OF TECHNOLOGY SERVICES

Isiah Leggett
County Executive

Harash (Sonny) Segal
Chief Information Officer

February 24, 2016

TO: Transmission Facility Coordinating Group

Marjorie Williams, TFCG Chair, Office of Cable and Communications Services
Carlton Gilbert, M-NCPPC
Dennis Hetman, OMB
Martin Rookard, WSSC
Boyd Lawrence, MCPS
Dave Niblock, DPS
Thomas Williamson, DGS

FROM: Robert Hunnicutt, Tower Coordinator,
Columbia Telecommunications Corporation

SUBJECT: Tower Group Meeting Agenda

The next TFCG meeting is scheduled for Wednesday, March 2nd at 2:00 p.m. in Room #225 in the COB. The agenda for the meeting is as follows:

Consent Agenda

1. Verizon Wireless application to attach six panel antennas at the 120' level on a 247'-high AM radio tower on M-NCPPC property located at 9701 Sligo Creek Parkway in Silver Spring (201509-09). *Co-location. Conditioned on the applicant providing written approval from M-NCPPC that they approve of the attachment at the time of permitting*
2. Verizon Wireless application to remove 12 antennas and replace with 9 panel antennas at the 138' level on a 150'-high monopole on Bethesda Country Club property located at 7601 Bradley Boulevard in Bethesda (201602-04). *Minor Modification.*
3. Verizon Wireless application to remove 9 antennas and replace with 9 panel antennas at the 121' level on a 126'-high PEPCO transmission line tower on PEPCO property located at Falls Farm Drive in Potomac (201603-02). *Minor Modification.*
4. Verizon Wireless application to remove 3 antennas and replace with 3 panel antennas at the 135' level on a 200'-high lattice tower on Carver Wheaton Real Property LC property located at 2647 University Boulevard in Wheaton (201603-03). *Minor Modification.*

5. Verizon Wireless application to remove 9 antennas and replace with 9 panel antennas at the 123' level on a 128'-high PEPCO transmission line tower on PEPCO property located at 9712 Aldersgate Road in Potomac (201603-04). *Minor Modification.*
6. Verizon Wireless application to remove 9 antennas and replace with 9 panel antennas at the 113' level on a 118'-high PEPCO transmission line tower on PEPCO property located at Travilah and Dufief Mill Road in Gaithersburg (201603-05). *Minor Modification.*
7. Verizon Wireless application to remove 3 antennas and replace with 3 panel antennas at the 142' level on a 142'-high PEPCO transmission line tower on PEPCO property located at 11500 Game Preserve Road in Gaithersburg (201603-06). *Minor Modification.*
8. AT&T application to replace 3 antennas with 3 panel antennas at the 75' level on a 88'-high bell tower on St. Patrick's Church property located at 4101 Norbeck Road in Rockville (201603-07). *Minor Modification.*
9. T-Mobile application to add 3 panel antennas at the 90' and 91' levels atop a 78'-high building on Wheaton Plaza Regional Shopping Center property located at 11160 Veirs Mill Road in Wheaton (201603-08). *Minor Modification.*
10. T-Mobile application to add 3 panel antennas at the 100' level on a 250' lattice tower on Easterday Property properties located at 9265 Brown Church Road in Mt. Airy (201603-09). *Minor Modification.*
11. T-Mobile application to add 3 panel antennas at the 55' level on a 63'-high silo on Steven H. Steinberg property located at 15021 Dufief Mill Road in Gaithersburg (201604-01). *Minor Modification.*

Regular Agenda

NOTE: See attached summary of the following applications for DAS antennas.

12. Crown Castle for Verizon Wireless application to install a 33'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 31' level on Montgomery County Government property located at Rolling Green Way at Lake Breeze Drive in Potomac (201601-10). *New.*
Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas
13. Crown Castle for Verizon Wireless application to install a 33'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 31' level on Montgomery County Government property located at 11626 Green Watch Way in Potomac (201601-11). *New.*
Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas

14. Crown Castle for Verizon Wireless application to install a 48'-high wooden pole and attach three 24"-high panel antennas at the 47' level on Montgomery County Government property located at Dufief Mill Road at Lake Winds Way in Potomac (201601-12). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
15. Crown Castle for Verizon Wireless application to install a 30'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 28' level on Montgomery County Government property located at 10322 Nolan Drive in North Potomac (201601-13). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
16. Crown Castle for Verizon Wireless application to install a 30'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 28' level on Montgomery County Government property located at 14405 Lake Winds Way in Potomac (201601-14). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
17. Crown Castle for Verizon Wireless application to install a 57'-high wooden pole and attach three 24"-high panel antennas at the 47' level on Montgomery County Government property located at Dufief Mill Road at Flints Grove Lane in Potomac (201601-15). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
18. Crown Castle for Verizon Wireless application to install a 33'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 31' level on Montgomery County Government property located at 14201 Masterpiece Lane in Potomac (201601-16). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
19. Crown Castle for Verizon Wireless application to install a 30'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 28' level on Montgomery County Government property located at Lake Winds Way at Outpost Drive in Potomac (201601-17). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
20. Crown Castle for Verizon Wireless application to install a 33'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 31' level on Montgomery County Government property located at 14800 Rolling Green Way in Potomac (201601-18). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*

21. Crown Castle for Verizon Wireless application to install a 30'-high steel pole and attach a 48"-high omni-directional antenna atop the pole at the 28' level on Montgomery County Government property located at 13548 Wisteria Drive in Germantown (201601-19). *New. Conditioned on approval as may be needed from the Hearing Examiner for a Conditional Use of this property for the new pole and antennas*
22. Crown Castle for T-Mobile application to install additional equipment inside an existing equipment cabinet at the 10' level on a 48'-high wooden pole on Montgomery County Government property located at Dufief Mill Road at Lake Winds Way in Potomac (201601-20). *Co-location. Conditioned on construction of the new pole and equipment cabinet*
23. Crown Castle for T-Mobile application to install additional equipment inside an existing equipment cabinet at the 10' level on a 48'-high wooden pole on Montgomery County Government property located at Dufief Mill Road at Flints Grove Lane in Potomac (201601-21). *Co-location. Conditioned on construction of the new pole and equipment cabinet*
24. Crown Castle for T-Mobile application to install additional equipment inside an existing equipment cabinet at the base of a 30'-high steel pole on Montgomery County Government property located at 14405 Lake Winds Way in Potomac (201601-22). *Co-location. Conditioned on construction of the new pole and equipment cabinet*
25. Crown Castle for T-Mobile application to install additional equipment inside an existing equipment cabinet at the base of a 30'-high steel pole on Montgomery County Government property located at 10322 Nolan Drive in North Potomac (201601-23). *Co-location. Conditioned on construction of the new pole and equipment cabinet*

SUMMARY

Crown Castle DAS – New tower applications for Verizon Wireless (201601-10 thru 19)

Each application is for one of approximately 120 access points that comprise several distributed antenna systems (DAS) serving largely single-family residential areas, primarily in north Potomac, where there are no large buildings, towers, or other suitable structures to support antennas. The TFCG reviewed and recommended applications for 20 of those DAS applications in 2015 (201512-01 and 02) as co-locations to existing electric distribution line utility poles (i.e., poles replaced by PEPCO to accommodate the antennas). However, in the areas where these new poles are proposed to be placed, there are no existing poles because the utilities are underground. Therefore, there is a need for new structures for mounting these DAS access points. Crown Castle plans to file additional applications for the remaining planned antenna locations in the County right-of-way after obtaining DOT agreement on the design plans for additional support structures.

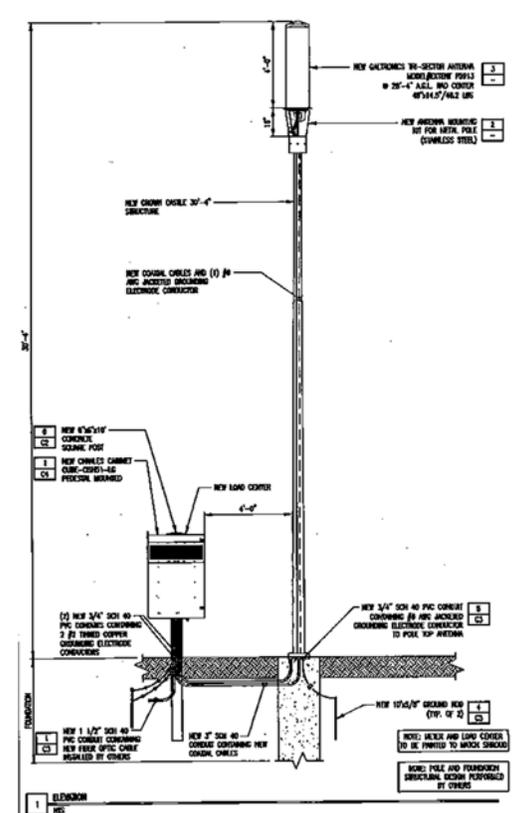
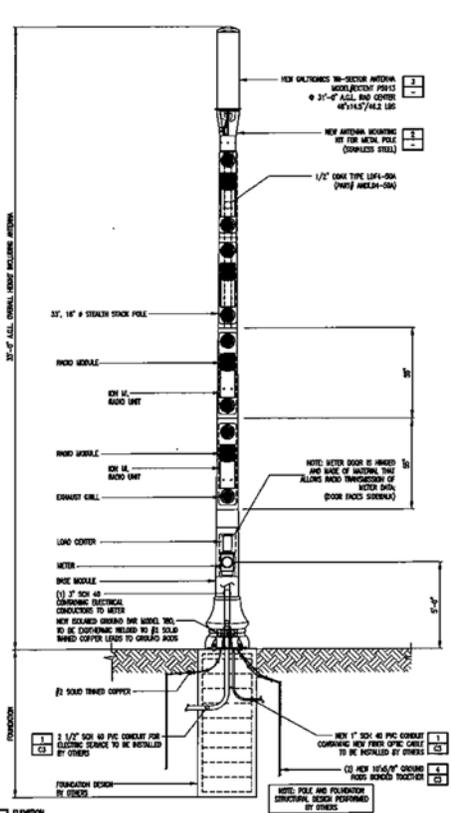
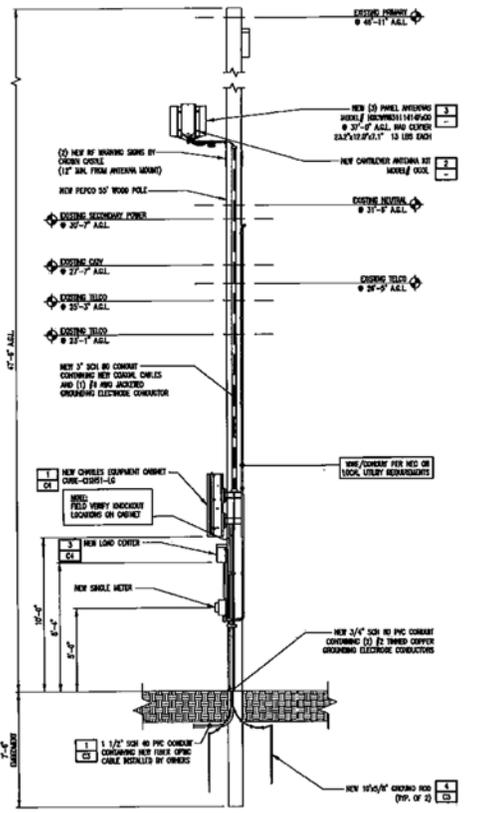
The engineer representing Verizon Wireless for this project has stated to the Tower Coordinator Engineer that the DAS network is needed to add capacity for Verizon Wireless 4G services transmitted over the 2.1 GHz band, which is not presently provided to this residential area. Each access point will be connected to a central base station in Gaithersburg via fiber optic backhaul links.

There are basically three types of structures associated with these applications, summarized as follows:

Two applications are for new wooden PEPCO poles installed mid-span between existing poles; each has three directional panel antennas atop the pole, and an equipment cabinet on the pole 8' above ground level.

Four applications are for a new metal pole topped with omni-directional antennas; each has electronics concealed inside the pole.

Four applications are for a new metal pole topped with omni-directional antennas; each has an equipment cabinet on the ground alongside the pole.



There are also four applications on the agenda (201601-20 thru 23) to add T-Mobile services, co-locating equipment at access points established for Verizon Wireless and sharing the Crown antennas with Verizon Wireless at those locations.